USGS science for a changing world

Earthquake Shaking **Green** Alert

GSN USAID FROM THE AMERICAN PEOPLE ANSS

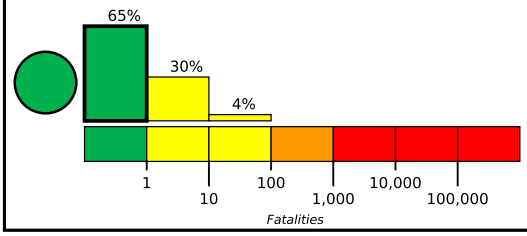
M 5.4, 1 km E of San Isidro Apango, Mexico

Origin Time: 2020-06-24 02:33:20 UTC (Tue 21:33:20 local)
Location: 15.8102° N 96.3401° W Depth: 9.3 km

PAGER Version 4

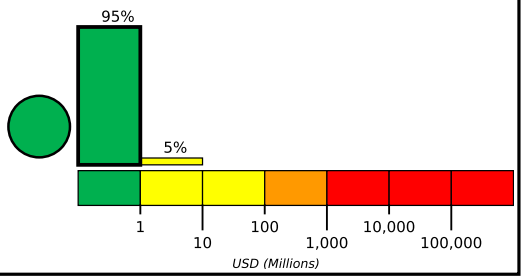
Created: 1 week, 3 days after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

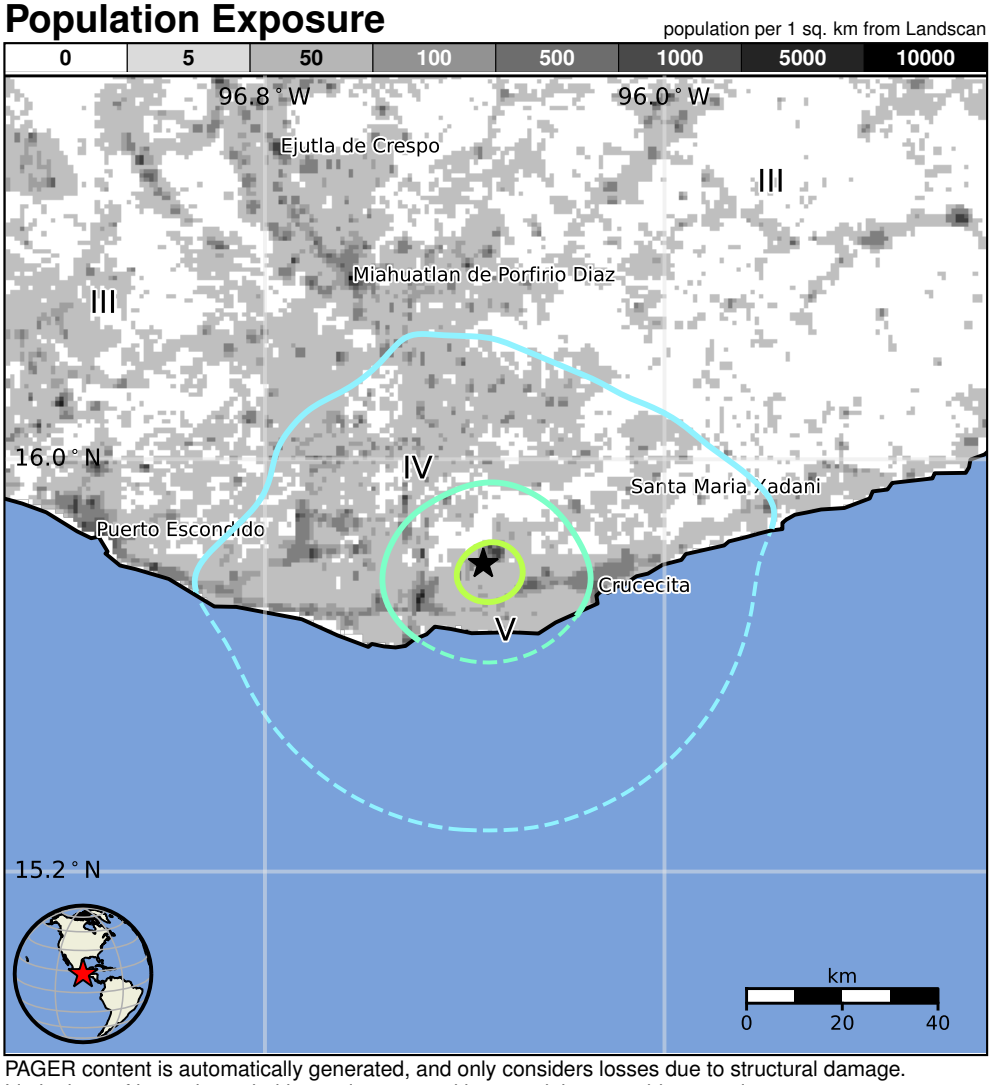


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	359k*	187k	67k	25k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and adobe block with concrete bond beam construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1975-11-05	394	5.0	VI(21k)	1
1999-06-15	307	6.9	VI(178k)	16
1973-08-28	270	7.2	VII(847k)	600

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VI	Santa Maria Huatulco	5k
VI	San Isidro Apango	1k
VI	Cuapinolito (Azulillo)	1k
VI	La Erradura	1k
VI	San Miguel Figueroa	1k
V	San Pedro Pochutla	13k
IV	**Crucecita**	**15k**
IV	**Miahuatlan de Porfirio Diaz**	**18k**
III	Brisas de Zicatela	10k
III	**Puerto Escondido**	**19k**
III	Jalapa	8k

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/us6000ahkh#pager

Event ID: us6000ahkh